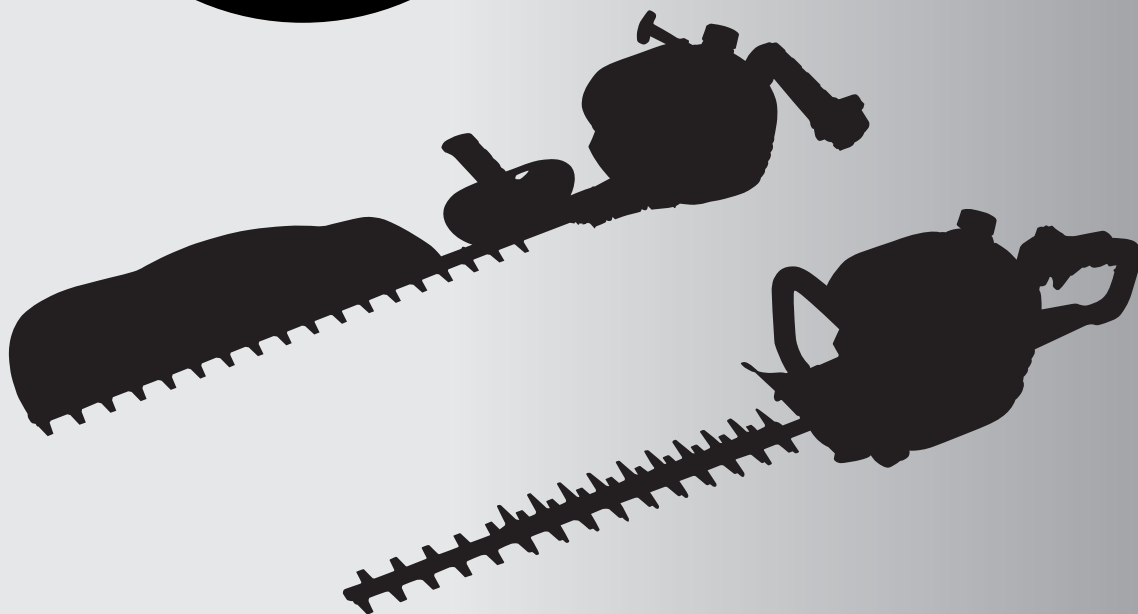




OWNER'S MANUAL

HEDGE TRIMMER



eHT752S eHT602D

Original Language



WARNING



Before using our products,
please read this manual
carefully to understand the
proper use of your unit.

EXPLANATION OF SYMBOLS AND SAFETY WARNINGS

eHT752S



WARNING!!!
RISK OF DAMAGING HEARING
Wear head, eye and ear protection.



eHT602D



WARNING!!!
RISK OF DAMAGING HEARING
Wear head, eye and ear protection.



MODEL		SOUND LEVEL ¹⁾		VIBRATION LEVEL ²⁾
		ISO 10517	ISO 11094	ISO 10517
		L _{pAV}	L _{WA} (guaranteed)	a _{hv, eq}
eHT752S	21.7 cm ³	94 dB(A)	104 dB(A)	4.9 m/s ²
eHT602D	21.7 cm ³	91 dB(A)	102 dB(A)	4.1 m/s ²

* Specifications are subject to change without notice

1) Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EC directive 2000/14/EC.
Reported soundpower level for the machine has been measured with the original cutting attachment that gives the highest level.
The difference between guaranteed and measured sound power is that the guaranteed sound power also includes dispersion in the measurement result and the variations between different machines of the same model according to Directive 2000/14/EC.
Reported data for equivalent sound pressure level (L_{pAeq}) at the operator's ear for the machine has a typical statistical dispersion (standard deviation) of 1 dB (A).

2) Reported data for equivalent vibration level (a_{hv,eq}) at the control handle has a typical statistical dispersion (standard deviation) of 1 m/s².

APPROVAL NUMBER OF CE EXHAUST EMISSION REGULATION
e13*97/68SH2G3*2002/88*0109*02

EC DECLARATION OF CONFORMITY

(Applies to Europe only)

The undersigned manufacturer,

Husqvarna Zenoah Co., Ltd.,**1-9, Minamidai, Kawagoe, Saitama, Japan,**

declares under sole responsibility that the following products referred to in this declaration conform with the requirement of the following COUNCIL'S DIRECTIVE.

The products referred to are :

DESIGNATION : Hedge trimmers**MANUFACTURER** : Husqvarna Zenoah Co., Ltd.**MODELS** : eHT752S

eHT602D

SERIAL NUMBERS DATING : 2010 and onwards(The year is clearly stated on the rating plate,
followed by the serial number)

This declaration conform with :

• **DIRECTIVE 2006/42/EC**

(The following standards have been applied: ISO 12100-1,-2, FprEN 15503: 2009)

• **DIRECTIVE 2004/108/EC**

(The following standards have been applied: EN 61000-6-1, EN 55012 (CISPR 12: 2005))

• **DIRECTIVE 2000/14/EC**

conformity assessment procedure followed ANNEX V

(The following standards have been applied: ISO 11094)

• **DIRECTIVE 2002/88/EC**• **EN774 : 1996**

Date : 29 December 2009

Signature :



Kiyoshi Honda

General Manager, Development Center

Authorised representative :

Husqvarna AB**SE-561 82 Huskvarna, Sweden**

Person authorised to compile the technical file :

Bo R Jonsson**SE-561 82 Huskvarna, Sweden****▲ SAFETY FIRST**

Instructions contained in warnings within this manual marked with a ▲ symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

WARNINGS IN THE MANUAL**▲ WARNING**

This mark indicates instructions, which must be followed in order to prevent accidents, which could lead to serious bodily injury or death.

❗ IMPORTANT

This mark indicates instructions, which must be followed, or it leads to mechanical failure, breakdown, or damage.

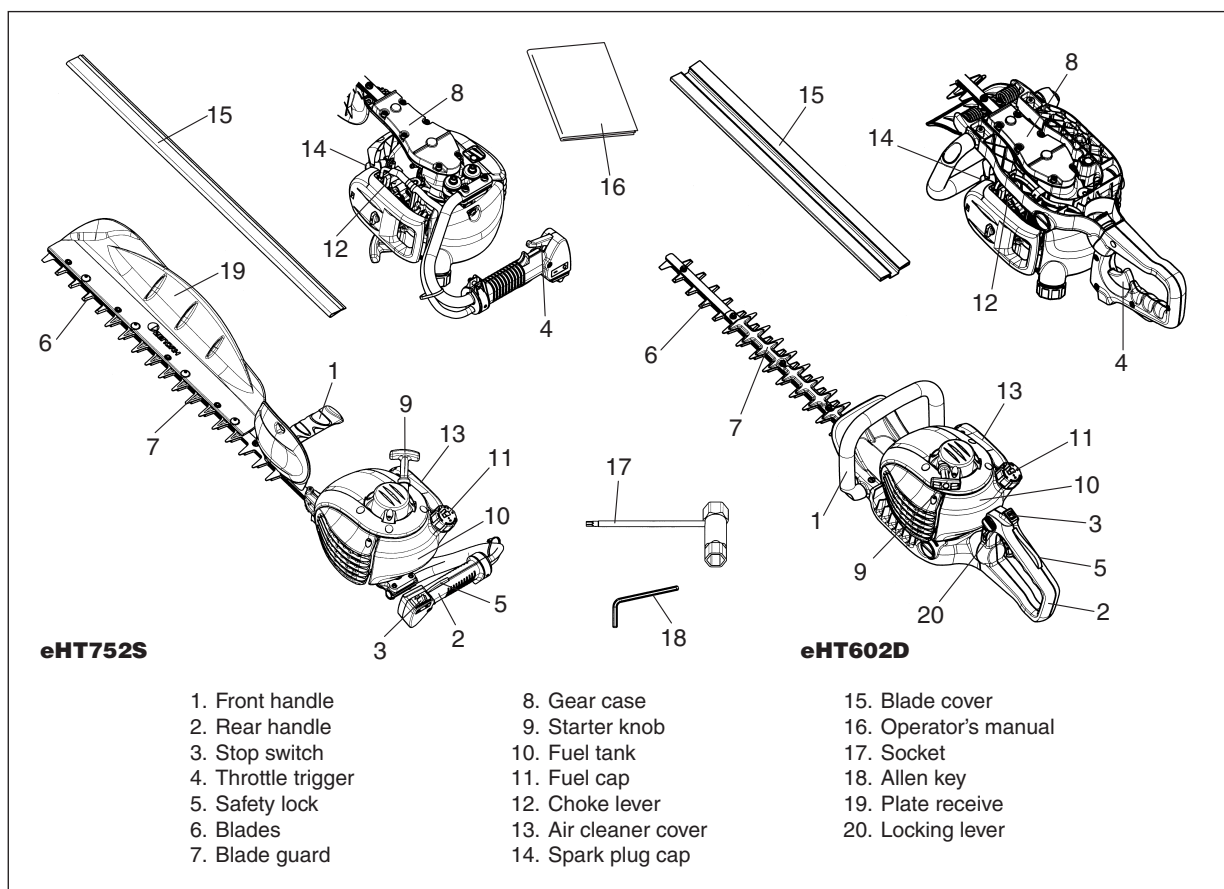
📖 NOTE

This mark indicates hints or directions useful in the use of the product.

Contents

1. Parts location	4
2. Specifications	4
3. Warning labels on the machine	5
4. Symbols on the machine	5
5. For safe operation	6
6. Fuel	9
7. Operation	10
8. Maintenance	12
9. Storage	15
10. Disposal	15
11. Troubleshooting guide	15

1. Parts location



2. Specification

Model eHT752S / eHT602D

Type double-action type

eHT752S / eHT602D Single blade / Double blade

Blade length (from the tip of Gear Case)

eHT752S / eHT602D 670 / 530 mm

Engine

Model Zenoah G20LH

Displacement 21.7 cm³

Carburetor Diaphragm type

Ignition system I.C.controlled flywheel magneto

Spark plug NGK BPMR7A

Fuel mixture (Gasoline 50 : Oil 1)
(when using ZENOAH genuine oil)

Fuel tank capacity 0.4 L

Starter Recoil starter

Clutch Centrifugal type

Reduction ratio


eHT752S / eHT602D 4.78 / 4.78

Dry weight


eHT752S / eHT602D 4.7 / 4.6 kg

Specifications are subject to change without notice.


3. Warning labels on the machine




(1) Read owner's manual before operating this machine.



(2) Wear head, eye and ear protection.



(3) Handling this machine improperly could result in accidents causing serious injury or death. Read this manual carefully and practice using the hedge-trimmer until you are fully acquainted with all operations and have learned to use it correctly.



(4) This is extremely sharp and can easily cause cuts.



If warning label peels off or becomes soiled and impossible to read, you should contact the dealer from which you purchased the product to order new labels and affix them in the required location(s).



Never modify your machine.
We won't warrant the machine, if you use the remodeled hedge trimmer or if you don't observe the proper usage written in the manual.

4. Symbols on the machine

For safe operation and maintenance, symbols are carved in relief on the machine. According to these indications, please be careful not to make a mistake.



The port to refuel the "MIX GASOLINE"
Position: FUEL TANK CAP



The direction to close the choke
Position: AIR CLEANER COVER



The direction to open the choke
Position: AIR CLEANER COVER

▲ 5. For safe operation

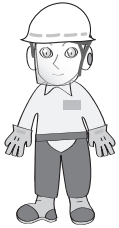


1. THIS MACHINE CAN CAUSE SERIOUS INJURIES. Read this manual carefully until you completely understand and follow all safety and operating instructions. Also, know how to stop the machine quickly in an emergency.
2. Keep this manual handy so that you may refer to it later whenever any questions arise. Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the product.
3. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.
4. Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.



WORKING CONDITION

1. When using the product, you should wear proper clothing and protective equipment.



- (1) Helmet
- (2) Ear protectors
- (3) Protection goggles or face protector
- (4) Thick work gloves
- (5) Non-slip-sole work boots

2. And you should carry with you.
 - (1) Attached tools
 - (2) Properly reserved fuel
 - (3) Spare blade
 - (4) Things to notify your working area (rope, warning signs)
 - (5) Whistle (for collaboration or emergency)
 - (6) Hatchet or saw (for removal of obstacles)
 - (7) First-aid kit



3. Do not wear loose clothing, jewelry, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so it is above shoulder length.

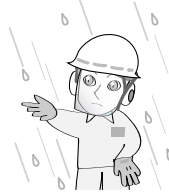


WORKING CIRCUMSTANCE

1. Never start the engine inside a closed room or building. Exhaust

gases contain dangerous carbon monoxide.

2. Never use the product,
 - a. when the ground is slippery or when you can't maintain a steady posture.
 - b. At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.
 - c. During rain, during storms at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use the product.



WORKING PLAN

1. You should never use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.
2. When planning your work schedule, allow plenty of time to rest. Limit the amount of time over which the product is to be used continuously to somewhere around 30 ~ 40 minutes per session, and take 10 ~ 20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.



▲ WARNING

1. If you don't observe the working time, or working manner (See "USING THE PRODUCT"), Repetitive Stress Injury (RSI) could occur.

If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.

2. To avoid noise complaints, in general, operate product between 8 a.m. and 5 p.m. on weekdays and 9 a.m. to 5 p.m. on weekends.



▲ 5. For safe operation

❶ IMPORTANT

Check and follow the local regulations as to sound level and hours of operations for the product.

BEFORE STARTING THE ENGINE

1. The area within a perimeter of 15 m of the person using the product should be considered a hazardous area into which no one should enter. If necessary, yellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure safety.
2. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken glass.



❶ IMPORTANT

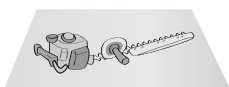
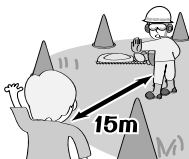
Remove any obstacle before beginning work.

3. Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.



STARTING THE ENGINE

1. Keep bystanders, especially children, and animals at least 15 m away from the operating point. If you are approached, immediately stop the engine.
2. The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to move as soon as the engine is started by putting the throttle into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.



▲ WARNING

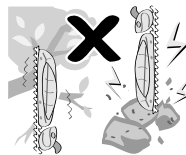
- **Never place the throttle into the high-speed position when starting the engine.**
- **Never start the engine at the cutting attachment side.**

3. After starting the engine, check to make sure that the cutting attachment stops moving when the throttle is moved fully back to its original position. If it continues to move even after the throttle has been moved fully back, turn off the engine and take the unit to your authorized ZENOAH servicing dealer for repair.

USING THE PRODUCT

❶ IMPORTANT

Cut only materials recommended by the manufacturer. And use only for tasks explained in the manual.



1. Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
2. Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.
3. If the unit starts to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.
4. Keep all parts of your body away from moving cutting attachment and hot surfaces.
5. Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so could result in serious burns or electrical shock.
6. While operating the machine be always sure of a safe and secure operating position especially when using steps or a ladder.



▲ 5. For safe operation

7. Check the cutting attachment. Never use blades that are dull, cracked or damaged.
8. To reduce the fire hazard, clean dirt, leaves and surplus lubricant, etc from the muffler and engine.

• IF SOMEONE COMES

1. Guard against hazardous situations at all times. Warn adults to keep pets and children away from the area. Be careful if you are approached. Injury may result from flying debris.
2. If someone calls out or otherwise interrupts you while working, always be sure to turn off the engine before turning around.

MAINTENANCE

1. In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.
2. Always be sure to turn off the engine and disconnect the spark plug wire before performing any maintenance, checking procedures or working on the machine.



▲ WARNING

The metallic parts reach high temperatures immediately after stopping the engine.

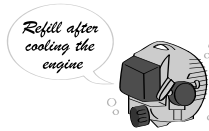


3. When replacing the cutting attachment or any other part, or when replacing the oil or any lubricant, always be sure to **use only ZENOAH products or products which have been certified by ZENOAH for use with the ZENOAH product.**
4. In the event that any part must be replaced or any maintenance or repair work not described in this manual must be performed, please contact a representative from the store nearest ZENOAH authorized servicing dealer for assistance.
5. Do not use any accessory or attachment other than those bearing the ZENOAH mark and recommended for the unit.
6. Under no circumstances should you ever take apart the product or alter it in any way. Doing so

might result in the product becoming damaged during operation or the product becoming unable to operate properly.

HANDLING FUEL

1. The engine of the ZENOAH product is designed to run on a mixed fuel, which contains highly flammable gasoline. Never store cans of fuel or refill the tank of the unit in any place where there is a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.
2. Never smoke while operating the unit or refilling its fuel tank.
3. When refilling the tank, always turn off the engine and allow it to cool down. Take a careful look around to make sure that there are no sparks or open flames anywhere nearby before refueling.
4. Wipe spilled fuel completely using a dry rag if any fuel spillage occurs during refueling.
5. After refueling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 3 m or more away from where it was refueled before turning on the engine.
6. Do not inhale fuel fumes as they are toxic.



TRANSPORTATION

1. When hand-carrying the product, cover over the cutting part if necessary, lift up the product and carry it paying attention to the blade.
2. Never transport the product over rough roads over long distances by vehicle without removing all fuel from the fuel tank. If doing so, fuel might leak from the tank during transport.



6. Fuel

■ FUEL

⚠ WARNING

- **Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fueling point before starting the engine.**



- The Zenoah engines are lubricated by oil specially formulated for air-cooled 2-cycle gasoline engine use. If Zenoah oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use (JASO FC GRADE OIL or ISO EGC GRADE).
- Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.



■ RECOMMENDED MIXING RATIO

GASOLINE 50 : OIL 1

(when using ZENOAH genuine oil)

- **Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.**
- These engines are certified to operate on unleaded gasoline.
- Make sure to use gasoline with a minimum octane number of 89RON (USA/Canada: 87AL).
- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.
- Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

■ HOW TO MIX FUEL

⚠ WARNING

- Pay attention to agitation.
1. Measure out the quantities of gasoline and oil to be mixed.
 2. Put some of the gasoline into a clean, approved fuel container.
 3. Pour in all of the oil and agitate well.

4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
6. Indicate the contents on outside of container for easy identification.

■ FUELING THE UNIT

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Put fuel into the fuel tank to 80% of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

⚠ WARNING

1. Select bare ground for fueling.
2. Move at least 10 feet (3 meters) away from the fueling point before starting the engine.
3. Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.

■ FOR YOUR ENGINE LIFE, AVOID:

1. **FUEL WITH NO OIL (RAW GASOLINE)** – It will cause severe damage to the internal engine parts very quickly.
2. **GASOHOL** – It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. **OIL FOR 4-CYCLE ENGINE USE** – It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
4. **Mixed fuels which have been left unused for a period of one month or more** may clog the carburetor and result in the engine failing to operate properly.
5. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
6. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

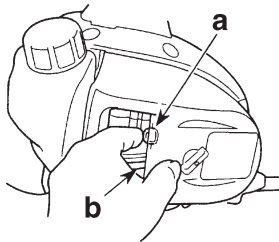
📖 NOTE

- As for details of quality assurance, read the description in the section Limited Warranty carefully. Moreover, normal wear and change in product with no functional influence are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty.

7. Operation

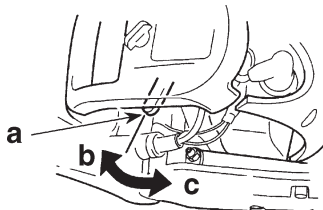
STARTING ENGINE

1. Feed fuel into the fuel tank and tighten the cap securely.
2. Rest the unit on a flat, firm place. Keep the cutting head off the ground and clear of surrounding objects as it will start moving upon starting of the engine.
3. Push the primer several times until overflow fuel flows out in the clear tube.



(a) Primer (b) Clear tube

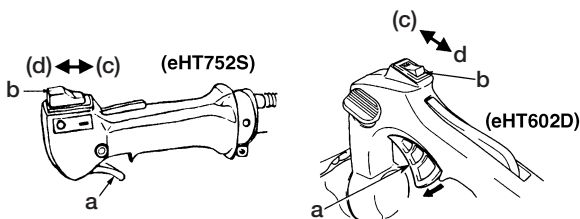
4. When the engine is cool, move the choke lever to the closed position.



(a) Choke lever (b) Open (c) Close

5. Set the ignition switch to the "RUN" position.

Release the throttle trigger and make sure it is fully back.

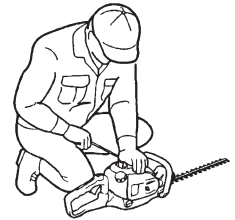


(a) Throttle trigger (b) Stop switch (c) RUN (d) STOP

6. While holding the unit firmly, pull out the starter rope quickly until engine fires.



(eHT752S)



(eHT602D)

IMPORTANT

- Avoid pulling the rope to its end or returning it by releasing the knob. Such actions can cause starter failures.

7. Move the choke lever downward to open the choke and restart engine.

8. Allow the engine to warm up for a several minutes before starting operation.

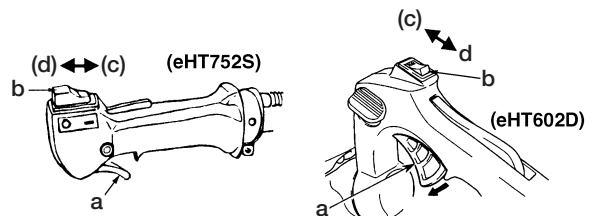
NOTE

1. When restarting the engine immediately after stopping it, leave the choke open.
2. Overchoking can make the engine hard to start due to excess fuel. When the engine failed to start after several attempts, open the choke and repeat pulling the rope, or remove the spark plug and dry it.

STOPPING ENGINE

1. Release the throttle trigger and run the engine for half a minute.

2. Shift the stop switch to the "STOP" position.



IMPORTANT

- Except for an emergency, avoid stopping the engine while pulling the throttle trigger.

NOTE

If the engine won't stop when setting the stop switch to the stop position, close the choke lever and stop the engine.

In this case, please repair the machine at your nearest servicing dealer.

7. Operation

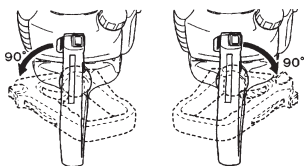
CUTTING WORK

⚠ WARNING

- Weather conditions and altitude may effect carburation.
- Do not allow anyone to stay close to the hedge-trimmer while working or while adjusting the carburetor.

HOW TO USE : HANDLE (eHT602D)

- To reduce fatigue when trimming hedges, the handle can be swivelled through 90° to the left or right.

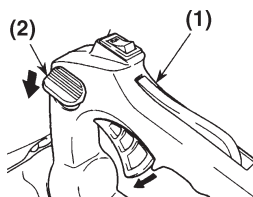


- Do not press the throttle during this operation!

Proceed as follows:

1. Free the handle by pressing the locking lever.
2. Turn the handle until the locking lever clicks into place.
3. When the handle is locked in its new position, you can apply the throttle again.

- (1) handle
(2) locking lever



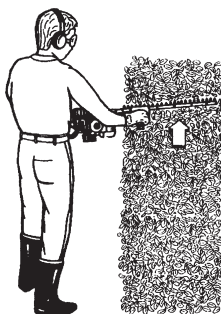
- You can swivel the handle even with the engine idling because the hedge-trimmer is equipped with a blade brake that maintains the blades at a standstill.

■ HEDGE TRIMMING TECHNIQUES

Trim sides of a hedge first, and then the top.

Vertical cut:

- With the single-sided blade hedge-trimmer, model eHT752S always cut from the bottom up.

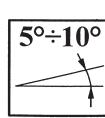
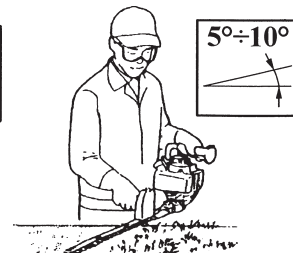
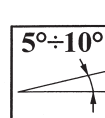
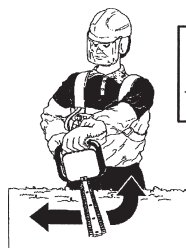


- With the 2-sided blade model eHT602D use an arcing cut from the bottom upwards, then downwards to use both sides of the blades.



Horizontal cut:

- In order to get the best cutting results, slightly tilt the blade ($5 \div 10^\circ$) towards the cutting direction.



Cut slowly, specially with thick hedges.

⚠ WARNING

Always follow the safety precautions.

The hedge-trimmer must only be used to trim hedges or small bushes. It is forbidden to cut other types of material. Do not use the hedge-trimmer as a lever to lift, move or break objects, nor lock it on fixed supports. It is forbidden to apply tools or applications that are not the ones indicated by the manufacturer onto the hedge-trimmer's power take-off. Do not use it for pruning trees or cutting grass.

- Use only as much throttle as is needed to do the job. Excessive engine speed is unnecessary.
- Avoid cutting thick branches, for which will damage the blades and shorten the life of drive systems.
- Tilting the trimmer 5 to 10° to the cutting object will make the job easy and bring a good result.
- Always keep your body to the carburetor side of your trimmer, never on the muffler side.
- When a new machine is first operated, in the first few minutes grease may come out of the gear case. But, since this is excess grease, there is no cause for alarm. Just wipe it off with the engine stopped for next use.
- Always remember that the TIP of the line does cutting. You will achieve better results by not crowding the line into the cutting area. Allow the unit to trim at its own pace.



8. Maintenance

	System/components	Procedure	Before use	Every 25 hours after	Every 50 hours after	Every 100 hours after	Note
ENGINE	fuel leaks, fuel spillage	wipe out	✓				
	fuel tank, air filter, fuel filter	inspect/clean	✓	✓			replace, if necessary
	idle adjusting screw	see adjusting idling speed	✓				replace carburetor if necessary
	spark plug	clean and readjust plug gap			✓		GAP: 0.6 ~ 0.7 mm replace, if necessary
	intake air cooling vent	clean		✓			
TRIMMER	throttle trigger, stop switch	check operation	✓				
	cutting parts	clean	✓				take it to a service dealer if somethings wrong
	gear case	grease			✓		
	screws/nuts/bolts	tighten/replace	✓			✓	not adjusting screws
	plate receive	make sure to attach	✓				

⚠ WARNING

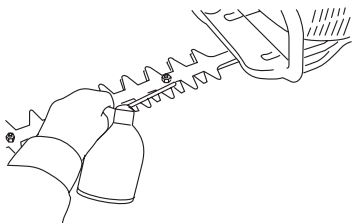
- **Make sure that the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.**

BLADE

- Clean any resin and plant residue from the blade before and after using the machine.
- Check the cutting edges and reform with a flat file.

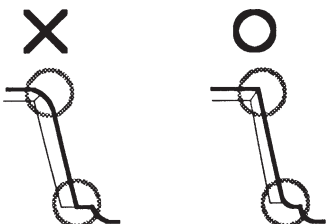
⚠ WARNING

- **Make sure that the blade bolts are well tightened.**
- **The blade assembly is designed to automatically compensate for any play between the blades.**



Point :

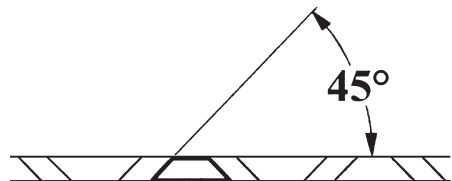
1. Keep the end corner sharp.
2. Round the root of the edge.
3. Do not use water when using a grinder.



❗ IMPORTANT

When mounting the blade, make sure to fasten the spacer, washer and bolt, then fasten the nut.

■ SHARPENING



Always keep the file or sharpener at an angle of 45° to the blade, and:

- Always grind in the direction of the cutting edge;
- Note: files cut only in one direction; lift the file from the blade when returning to start a new pass;
- Remove all burr from the edge of the blade with a slip stone;
- Remove as little material as possible;
- Before refitting the sharpened blades, remove filings and then apply grease.

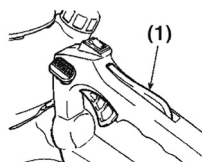
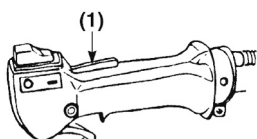
Do not try to sharpen a damaged blade: change it or take it to a Service dealer.

8. Maintenance

SAFETY LOCK

⚠ WARNING

- **Stop operation when the safety lock is defective.**
 - Safety lock is the device not to accelerate the throttle trigger without intention. While pushing the safety lock, you can accelerate the throttle trigger.
1. Check if the throttle trigger does not move when you do not push the safety lock.
 2. Check if the throttle trigger moves when you grasp or release it while pushing the safety lock.
 3. Check if the safety lock returns to its original position when you release your hand from safety lock.
- If you find any defects at the checks above, contact your nearest servicing dealer for repair.



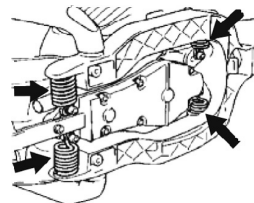
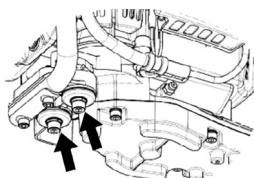
(1) Safety lock

ANTI-VIBRATION SYSTEM

⚠ WARNING

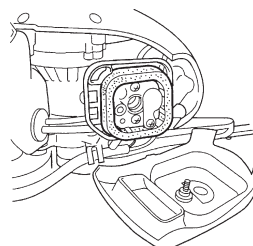
The deformed or damaged anti-vibration system may cause of the breakages like getting rickety or falling off of engine and/or blade .

- [eHT752S] Check periodically if the rubber cushions are not deformed or damaged.
- [eHT602D] Check periodically if the springs are not deformed or damaged.



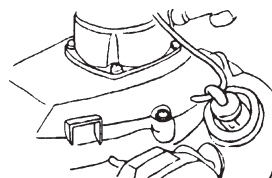
AIR FILTER

- The air filter, if clogged, will reduce the engine performance. Check and clean the filter element in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one.



FUEL FILTER

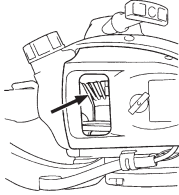
- When the engine runs short of fuel supply, check the fuel cap and the fuel filter for blockage.



8. Maintenance

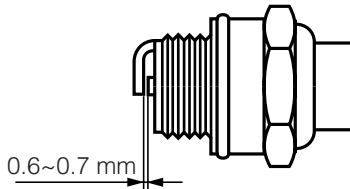
WAY OF THE COOLING AIR

- This engine is air-cooled. Dust clogging between the inlet port of the cooling air and cylinder fins will cause overheating of the engine. Periodically check and clean the cylinder fins after removing the air cleaner and the cylinder cover.



SPARK PLUG

- Starting failure and misfiring are often caused by a fouled spark plug. Clean the spark plug and check that the plug gap is in the correct range. For a replacement plug, use the correct type specified by ZENOAH.



- REPLACEMENT PLUG IS A CHAMPION RCJ6Y or NGK BPMR7A.**

❗ IMPORTANT

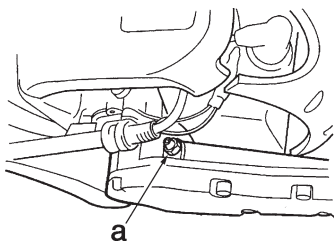
- Note that using any spark plug other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged.
- To install the spark plug, first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

TIGHTENING TORQUE: 14.7–21.5 N·m

GEAR CASE

- Supply multi-purpose grease at every 50 hours of use.

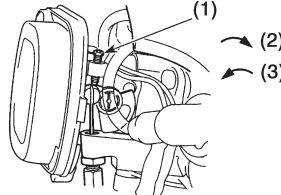
- Use a grease pump.
- Feed grease until it comes out of the base of blades.



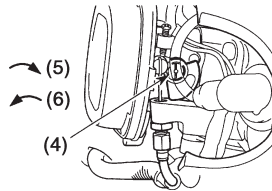
(a) Grease nipple: A type

ADJUSTING CARBURETOR

The carburetor has been adjusted at the factory. Should your unit need readjustment due to the changes in altitude or operating conditions, please let your skillful dealer make the adjustment. A wrong adjustment may cause damage to your unit.

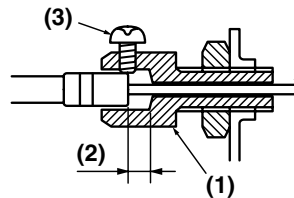


- (1) Idle adjusting screw
- (2) Up
- (3) Down
- (4) Fuel adjusting screw
(Opening $1 \pm 1/4$)
- (5) Decrease
- (6) Increase



ADJUSTING THROTTLE CABLE

- The normal play is 1 or 2 mm when measured at the carburetor side end. Readjust with the cable adjuster as required and tighten the screw up.



- (1) Cable adjuster
- (2) 0.04in (1~2mm)
- (3) Screw

9. Storage

1. Oil the blade to prevent rust.
2. Empty the fuel tank and put the cap back on.
3. Remove the spark plug, pour a small amount of oil into the cylinder.
4. Rotate the crankshaft several times using the starting rope in order to distribute the oil. Put the spark plug back in.
5. Wrap the engine with a plastic sheet.
6. Store the trimmer indoors in a dry place, dust free place, out of the reach of children, preferably not in direct contact with the floor and away from heat sources.

10. Disposal

- When you dispose of the machine, do not disassemble the machine.
- When you dispose of the machine fuel oil, be sure to follow your local regulations.

11. Troubleshooting guide

Case 1. Starting failure

CHECK	PROBABLE CAUSES	ACTION
fuel tank	→ incorrect fuel	→ drain it and use correct fuel
fuel filter	→ fuel filter is clogged	→ clean
carburetor adjustment screw	→ out of normal range	→ adjust to normal range
sparkign (no spark)	→ spark plug is fouled/wet	→ clean/dry
	→ plug gap is incorrect	→ correct (GAP: 0.6 ~ 0.7 mm)
spark plug	→ disconnected	→ retighten

Case 2. Engine starts but does not keep running/hard re-starting

CHECK	PROBABLE CAUSES	ACTION
fuel tank	→ incorrect fuel or staled fuel	→ drain it and use correct fuel
carburetor adjustment screw	→ out of normal range	→ adjust to normal range
muffler, cylinder (exhaust port)	→ carbon is built-up	→ consult with the repair specialty store
air cleaner	→ clogged with dust	→ wash
cylinder fin, fan cover	→ clogged with dust	→ consult with the repair specialty store

When your unit seems to need further service, please consult with our ZENOAH service shop in your area.

Limited warranty

Should any failure occur on the product under normal operating conditions within the applicable warranty period, the failed part will be replaced or repaired free of charge by a ZENOAH authorized dealer.

WARRANTY PERIOD: 1 year (6 months if used professionally, and 30 days if used for rental purpose) from the date of initial purchase.

THE PURCHASER SHALL BEAR COSTS OF TRANSPORTING THE UNIT TO AND FROM THE ZENOAH DEALER.

THE PURCHASER SHALL NOT BE CHARGED FOR DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT THE ZENOAH DEALER.

THE PURCHASER OR OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE AS DEFINED BY THE MANUFACTURER IN THE OWNER/OPERATOR MANUAL.

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE, OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF REPAIR OR "REPLACE AS NECESSARY" SHALL BE WARRANTED FOR THE WARRANTY PERIOD. ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMENT POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DURABILITY MAY BE USED IN NON-WARRANTY MAINTENANCE OR REPAIRS, AND

SHALL NOT REDUCE THE WARRANTY OBLIGATION OF THE COMPANY.

THE COMPANY IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS CAUSED BY THE FAILURE OF A WARRANTED PART STILL UNDER WARRANTY.

THE WARRANTY DOES NOT APPLY TO THOSE UNITS WHICH HAVE BEEN DAMAGED BY NEGLIGENCE OF INSTRUCTION LISTED IN THE OWNER/OPERATOR MANUAL FOR PROPER USE AND MAINTENANCE OF THE UNITS ACCIDENT MISHANDLING, ALTERATION, ABUSE, IMPROPER LUBRICATION, USE OF ANY PARTS OR ACCESSORIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE COMPANY'S CONTROL.

THIS WARRANTY DOES NOT COVER THOSE PARTS REPLACED BY NORMAL WEAR OR HARMLESS CHANGES IN THEIR APPEARANCE.

THERE ARE NO OTHER EXPRESS WARRANTIES.

IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE **ARE LIMITED** TO TWO (2) YEARS OF HOME USE [ONE (1) YEAR FOR ANY OTHER USE] FROM THE ORIGINAL DELIVERY DATE.

LIABILITIES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

IF YOU NEED TO OBTAIN MORE INFORMATION, PLEASE CALL YOUR NEAREST SERVICE CENTER, OR CHECK PLEASE ZENOAH WEB SITE
<http://www.zenoah.net>